

Chemistry  
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Materialia Medica -

Lect. 16 By Dr. Huhn -

Vegetable Astringents are  
weaker and flowery, act on  
stomach and bowels more <sup>in their effects</sup> <sup>if possible</sup>  
astringents <sup>can be given in large doses in</sup> <sup>in</sup> <sup>substance</sup>  
tincture - but in substance -  
they are long on <sup>stomach</sup> in  
substance have greater effects  
Fossile Astringents <sup>are</sup> <sup>in operation</sup>  
are not subject to corrosion on <sup>stomach</sup>  
veget. Astring. <sup>may be</sup> combined with  
purgatives <sup>to prevent astringents</sup> <sup>but not</sup>  
refrigerants & relaxing <sup>meds</sup>  
as Neutral Salts &c.  
Particula Astring.

Pentaplicuron or Cinquefoil  
in solution - A decoction in  
toothache (Dioscorides) & in other  
Proses - An infusion used in put  
revers, dysentery & absinthe hemorrhage  
Torminilla <sup>was used</sup> instead of bark in  
intermittents (others). joined with  
bitters - In dysentery astringents  
Quercus <sup>A decoction of torminilla</sup>  
tilla has been recommended to  
prevent abortion w. is from relax  
ation, a cold maceration is best in  
all recit. astringents by experi-  
ments I made in Edinburgh  
Rhubarb <sup>is a weak astringent</sup>  
in structure bones but no other part  
has been used in recto, but  
cold bath is better in this disorder  
Jaundice from obstructions of the  
duct by concretions, Enolherbs  
esdratives &c are better than this  
or any astringents -

Griffas rofaceum cured by y<sup>e</sup>  
juices of lime rubr

Astringents preserve y<sup>e</sup> teeth &  
gums increasing y<sup>e</sup> circulation  
in y<sup>e</sup> parts.

Lapathum is used in disorders of  
y<sup>e</sup> ~~stomach~~ <sup>stomach</sup>.

(It is from insects) an  
infusion with the other  
things <sup>is used</sup> for ringworms. An  
infusion in ill conditioned  
ulcers, taken internally & external  
is very useful.

Ferns are now seldom used  
felix mas against worms  
has been used. & in wickets and  
cramps. <sup>complaints.</sup>

Cupressus (D. Willis, <sup>used it in</sup> the  
cough not success)

The Crinacoughs <sup>appeared</sup> first in France

It is not from morbid matter  
is epidemic & infectious.

The Hooping cough is  
Distinguished fr. Croup in common  
gradually & fever every other day <sup>Recurrent</sup>  
The cough increases w<sup>th</sup> vomiting  
blackness of face & suffocation during  
vomiting to be excited — see card on  
nat. hist. — in this disease  
vomity, warm fermentations & antiseptic  
as mod. <sup>as</sup> camph. must be used & in a later stage the Bala  
is to be given or y<sup>e</sup> cup-mugs —

## Lecture 17<sup>th</sup>

Uva-ursi fruits of acerb taste are  
astringent — mod. of <sup>is</sup> flos in dysenter  
or its inspissated juice to restore  
the tone of the bowels, An  
infusion of the leaves is a gargle in  
sore throats & fauces —

is given  
Barberry in putrid diseases  
w<sup>th</sup> Diarrhoea & dysentery & is  
its pleasant & gently astringent  
Siccus Hypocistis is very mildly astring-  
ent —  
Tora Japon. is u<sup>se</sup> in p<sup>re</sup>par<sup>at</sup>ion of a  
palm tree; it is usefull in relax-  
ed guts, Diarrh. & assists Digestion  
if dissolved in aq. 16<sup>oz</sup> —

Sanguis Draconis only proper  
to form Alluminto pills; it is  
no way powerfull of itself —  
Hypericum is diuretic - its oil  
is penetrating —

Indysenteries astringents are dubi-  
ous; they are divided into acute & chron.  
The acute dysentery is w<sup>th</sup> fever and a  
ther putrid symptoms. Duration  
about  
one week —

treat it as a putrid fever w<sup>th</sup> *Cra-*  
*atues*, acid & anodynes *pecac.* *cum*  
*opio.* to promote diaphoresis -  
In *Chronic dys.* *Anodynes* *alut-*  
*Use* gentle astringents w<sup>th</sup> evacuations  
*Chronic dysentery* affects y<sup>e</sup>  
bowels only or chiefly -  
*Plantago* is a weak astringe & decoction  
in hemorrhag<sup>e</sup> & erysip<sup>h</sup>on *ir. & fluc.*  
*alb.* The juice in consumption  
it I have not experienced  
used against the bite of the rattlesnake  
snake - a wound <sup>by the snake</sup> in muscle  
is seldom dangerous & *ilicerts* &  
*poisons* <sup>are sufficient</sup> taken internally innocent  
mixed w<sup>th</sup> y<sup>e</sup> blood mortal

Solomon's Seal, the root only to  
be employed. a decoction in  
milk for y. piles They <sup>are</sup> not to be  
suddenly stop'd unless at their  
first appearance or <sup>with</sup> soon relaxa-  
tion — Wm from a plethora or during  
the evacuation not to be checked but  
astringents may be used to prevent them  
Kaufmann's is mild & mucilaginous  
Pinus sylvestris — filix — cornu &c  
emollient mucilag. caught best for cornu  
Urtica — juice in piles hemorrhoids  
extern. they inflame skin. hence used  
in palsy &c  
Mifetog. a weak astringent the  
virtue is in the bark, it is a like from  
every tree as the oak apple hazel &c  
Rosa Usp. in calculous complaint  
it strengthens parts & changes urine  
De Haen

It does not dissolve if stone -  
best given in powder if bed  
or often in. anodynes at night  
Case of a boy at Edinburgh relates -  
Morue in calculi <sup>reluctant</sup> com. is thick  
muculent. fetid and acrid & acid is.  
I think the cause of pain, tho  
perhaps not always - & in this  
respect are now a very little water  
~~useful~~ the Mucous  
should be constantly taken was used

Rect. 10 -

Colt. bravat. & querc. are strong  
astringents - <sup>Injection</sup> in prostatic any they  
best cold, good in ganglions  
Colt. Simaruba in Exotic Dyf.  
Dysent. it is sudorific. I used it  
with success at y<sup>e</sup> Owing. Africa -

galls are <sup>on trees</sup> & are removed from numerous insects - very astringent in solution. Applications for hemorrhoids should be cold - for warmth relaxes. Some other substances are occasionally astringent - as acids constringe, & of Tongue fissile, <sup>acids</sup> are not subject to fermentation as vegetables, of vegetables native ferment most - & spirit are sedative & stop those hemorrhages where astringent is being proper as in fevers & after the wine astringent is antisept. good in dysentery &c. — Bitters are stimulant & thus astringent - so are sedatives

Balsamics are sometimes astringent  
by a stimulus as in gleet

Epicarts are thought astringent  
as cloth meat &c they're rather  
absorbents Erisipilas is an affec-  
tion of the rete mucosum — eat  
meat on a cloth any better  
w<sup>th</sup> spirituous or oily applications

Astringents increase the cohesion  
simple fibres their action is not con-  
tinued solids <sup>times to the</sup> are relaxed by  
emollients — by rickets or by an  
overstretching of v. fibres — astringents used in  
a laxat. of moving fibres to in-  
crease firmness from increased action of  
the heart, fr. debility &c use fr  
consider of cause of hemorrh. &  
spec. in obstruction of any vessel

to avoid coagulants.

In ulcers astringents are used & called vulneraries. In particular inflamm. from a weak relaxed impetus of heart & arteries very necessary in old people. Differ from <sup>that</sup> in young, so in disorders of eyes &c.

Diseases differ in different regions climates, ages, sexes &c.

Hæmorrhage is an evacuation of pure blood from y. vessels of living body &c.

Active or passive; passive external injuries & active from increased action of heart & ordinary as from the nose, uterine &c. extraordinary as from eye &c.

natural & unnatural natural called by different names ven. from y. lungs hæmoptoe &c. from the arteries —

Persons of a fair red complexion.  
soft lax habits are subject to hemorrh.  
indolence the season of year as  
vernal & autumnal equinox  
particular age sex - suppres-  
sion of <sup>causes hemorrhages</sup> ~~menstruation~~ - commonly  
come on  
after the 30<sup>th</sup> year in y<sup>e</sup> hypochon-  
driac  
hemoptura mostly in old men

### Lecture 19<sup>th</sup>

Hemorrhages sometimes come on suddenly  
but generally are pre-  
ceded by some sensation of weight.  
nausea of face, costiveness, ulcer  
drying, pain in the back limbs &c.  
want of sleep. horripilation &  
sometimes periodical.

Antecedent causes w.<sup>c</sup> predispose  
to plethora, are exercise, violent  
passions spirit. liquors &c.

Partial causes are congestion  
of humours in a particular part, occa-  
sioned generally by fullness of the system.

Causes of plethora are 1<sup>st</sup>.

an increase of nourishment, the excretions  
being the same, particularly animal  
diet — 2<sup>d</sup>. a diminution of the excre-  
tions, w.<sup>c</sup> nourishment is the same.

This may be from the quality of the aliment  
flesh of young animals.

Oysters &c. want of exercise;

Cold & moist atmosphere

obstructing perspiration & so promoting  
plethora — Suppression of

usual evacuations, as blood

a diminution of body by amputation  
plethora — induced

Partial plethora is from growth  
of body in children a plethora is  
in the head, after <sup>in the</sup> ~~in the~~ lungs, an  
arterial plethora common in young  
& a venous in old people  
respiration is obstructed in old  
people hence congestions in <sup>the</sup> ordinary  
passages and a <sup>flow of</sup> ~~flow of~~ <sup>congestion</sup> ~~conformation~~  
of the part - of y<sup>e</sup> thorax <sup>causes congestion</sup> in y<sup>e</sup> lungs  
Debility induces plethora -  
a distention of particular vessels  
as of y<sup>e</sup> lungs by whooping cough -  
Local stimuli as calculi  
hardened feces - Piles & hemorrh.  
uteri, are often from hardened feces -  
Hemorrh. from stimuli taken into  
y<sup>e</sup> body - from increased action <sup>of the</sup> part  
as vociferation blow on instru  
of music & cause hemorrhoe -

suppression & evacuations, <sup>an irregular</sup>  
care, ruptures & issues &c. - we destroy  
of equilibrium in w<sup>e</sup> health consists  
inversion of the blood returning to heart  
through veins, by obstruction in vessels,  
infarctions in liver or spleen &c.  
spasmodic contractions of  
arteries occasioned by cold fear &c.  
Evacuation <sup>are often</sup> continued by  
custom as piles hemorrhoids &c.  
Proxim. causes are <sup>disturbances</sup> & rupture  
<sup>of the</sup> vessels by increased circulation  
1. a topical plethora from chill  
quick pulse &c.  
2. Partial plethora occasions <sup>these</sup> symptoms  
by destroying <sup>the</sup> equilibrium w<sup>e</sup> are  
Cure - In this we must consider  
the cause of y<sup>e</sup> evacuation  
& then the indications of cure  
will be three viz.

Lect 20 Indications in Hemorrh.

The first indication is to diminish the  
act<sup>n</sup> of heart & arteries & divert the blood  
from the part by antiphlogistic regimen  
acids, cold water blisters, dry cupping  
2 to give a constriction to the <sup>relaxed</sup> ruptured  
vessels & 3 prevent a return  
by astringents; the feasible astringents  
are quicksilver, preparations of lead espe-  
cially of album. Opium best in  
antiphlogistic diathesis w<sup>th</sup> Valvular ties -  
External Application as cold wet cloths  
to the neck, nuchæ &c - Astring-  
decoct<sup>n</sup> of oak bark - To prevent a return  
avoid the predisposing cause & topical  
bleed<sup>ing</sup> cupping blisters; veg  
astringents use often weak best  
infus<sup>n</sup> cord per. ediv. with in  
tinct. valerian

Emollients relax the fibres  
diminish the cohesion of the fluids  
the fluids — warm waters. a  
Decoct. of marshmallows, particul.  
in inflamm. of bowels not acrimony  
is very <sup>useful</sup> —  
It cleanses the intestines prevents  
strangury, & purgative & exerts  
inflammation. Linseed is a  
good substitute for G. Arab. &c.

All emollients are nearly of the same  
properties — Mouth of breath with  
in abscesses — Water of Ammonia  
is useful  
Lager only emollients —

Hot bath is emollient, antispas-  
modic — custom of hot bathing is very  
ancient — Most useful in warm climates  
not in cold climates

Warm water <sup>bathing</sup> applied to the body is  
simple or impregnated —  
Simple hot bath affects  
from heat & moisture —  
Water dissolves mucus on the skin  
& encourages perspiration —

It washes off acriminous matter <sup>from the</sup> skin,  
the effects are increased by heat —  
Its effects are not confined to the skin;  
but is exhibited by <sup>the</sup> callosities;  
it dilates <sup>the</sup> pores, removes  
glandular obstructions — In a  
young man w<sup>th</sup> fever & diarrhea,  
by pediluvia quite relieved the symptoms  
Heat of <sup>the</sup> bath should be from 80  
to 90° (Fahrenheit) this promotes  
gentle relaxation — If the heat  
is increased it becomes effluvia,  
Bathing makes the body turgid & veins  
tend to — It is useful in  
curing & preventing diseases on <sup>the</sup>  
skin from congestion, rigidity & struc-  
ture & diseases from obstructed pers-  
piration Dysentery, Diarrhea, scurvy  
prevents contagion as the Ped-  
yet tho it promotes perspiration  
it disposes body greatly to cold.

Trypanum or y. crispifolius, in  
w. dry abscesses are best —

Useful in contractions of the fingers  
& toes, in chronic rheumatism  
accompanying paralytic symptoms —  
there is a peculiar sympathy be-  
tween the stomach and bowels & from hence  
its usefulness — also in hysteria —  
hypochondria & all  
spasmodic disorders —

I am now to shew its useful-  
ness in fevers —

### Lecture 24.

The <sup>warm</sup> bathing  
The ancients used much in fevers; it  
takes off spasm, promotes sleep  
& diaphoresis — In disorders of  
brain & nervous system pedicuvia  
very useful — not to be always  
used in inflammat. disorders & some  
topical inflammations; particularly  
useful in deliria & nervous  
fevers

Dr. Hirsch used it w<sup>th</sup> success  
in a fever of a woman in childbed -  
it gave rest & she recovered - it  
might be partially used in such cases  
by pediluvia or fomentation -  
be <sup>very</sup> carefull not to wet the bed -

Pediluvia cause a derivation & revul-  
sion from the head, hence its use in  
the small pox, provided the steam be  
kept from the face -  
Promote symptomatic flux by  
determining the blood to y<sup>e</sup> parts -

The water also farbed by lymph-  
atic glands washes off acrimoni-  
ous matter <sup>and discharges further</sup> as scrophulous -

Baths of broths nutritious & may  
be used where agglutination is  
impossible - we can bear  
a heat much greater y<sup>e</sup> has  
been thought -

By Using it as a stimulus & relax-  
ant, great use may be obtained from it,  
in local diseases. Some  
Mariners very thirsty, were cured  
by sucking, the pines absorption

A very severe headache from  
a malignant fever, (every means  
tried in vain) was cured by lay-  
ing a mass perfectly dry of  
fire and applied to the feet quilt-  
ed in a rag or tow. suited to the  
size of the foot. (It must first  
be pulverized)

## Lecture 22. Stimulants

are substances which excite the action  
of living fibres, they have no action on dead bodies,  
at a high temperature.  
act directly, or indirectly on the nerves.

are mechanical; or chemical,  
as heat &c some affect particular  
parts as light the eyes.

They affect the nervous system -  
man have more brain y<sup>m</sup> other  
animals, w<sup>e</sup> give origin to nerves, & ~~are~~  
the seat of the mind - Nerves have  
other origins besides of brain - Dia ma-  
ter covers y<sup>e</sup> nerves, as Periosteum  
does the bones - <sup>supplied</sup> The  
nervous energy is excited by y<sup>e</sup> blood  
Nerves are supplied w<sup>th</sup> blood -  
replete w<sup>th</sup> ganglions generate ner-  
vous energy (See Murray on the  
nerves) have partial palsies, in-  
dependant of y<sup>e</sup> brain -  
Stimulants are used in languors  
& in low cachectic cases, in gangrene  
intermittents, just before the p<sup>er</sup> in  
palsies from a weak influx  
of y<sup>e</sup> nerves, in lethargy vertigo &  
apoplexy from ferrous not in  
sanguineous <sup>apoplexy</sup> vaccination <sup>in y<sup>e</sup></sup> bowels  
proper in this case

In headachs from relaxation  
in internal parts of <sup>cranium</sup> - Stimulants  
in prostrated disordered bowels - in  
hypochondriac & hysteria -  
Painful in emergency of heart  
& arteries & hemorrhoids from  
this cause - - A constant  
use of opium destroys irritation  
of system & tone of the body -

Particular Stimulants are  
Melissa Balm, a weak  
stimulant -

Lavender; in languors, weak-  
ness & tremors of y. limbs

Majoram is <sup>sectioned</sup> cephalic and  
useful in catarrh

Hyssop & penny royal Armo-  
nagogue, & stomachic  
Peppermint in flatulences,  
carminative & stomachic -

Onion is flagrant stimulant,  
astringent, in night sweat from  
weakness, after fevers it is useful  
by <sup>employment</sup> ~~employment~~  
Umbelliferous seeds - Caraway

fennel, anise, coriander, angelica  
relieve y. head and remove flatulen-  
cies & excite appetite - Infus. fenn-  
ic <sup>more</sup> in flatulent griping of chil-  
dren

Mild Carrot is antispasmodic, given  
in calculous complaints

Colicif. - Mustard, Radish <sup>Radish</sup> ~~Radish~~  
nausea & c. emetic, evacuate  
by sweat & wine - Use in scurvy -  
Mustard a spoonfull in

The powder or infusion of mustard is a good  
emetic - Mustard whey in le-  
thargy - Last stage of new. fever  
externally. Magnifies to excite  
the action of <sup>of</sup> heart - They <sup>are</sup> ~~must~~ <sup>are</sup> full  
in inflammations

Infusions horseradish & mustard  
in dyspnoea — young horse-radish  
in humoral asthma  
Garlic onions & leek of the  
same qualities — Garlic is diuretic  
& diaphoretic as afoesetida  
in catarrh seminis <sup>it is</sup> very useful  
taken morning & evening whole  
Roasted onions in maturat-  
ing tumors are no more ef-  
fectual than other emulsi-  
factions.

## Lecture 23. Stimulants

Coniferae are the <sup>virtue to</sup> fine &  
Juniper, we owe their <sup>therapeutic</sup> ~~therapeutic~~ <sup>virtue to</sup>  
Infusion of young pine shoots is  
diuretic & diaphoretic, in  
erysipelas, <sup>the</sup> skin, much prefer-  
able to guaiac or Sassafras.

Juniper is of course qualities as pine.  
oil of Juniper in spasms of stom-  
ach.

Infusion of it, in ~~the~~ disorders of breast.

Balsams also called from <sup>their</sup> smell.  
They are <sup>they are</sup> resinous substances, <sup>liquors</sup>  
~~for soles~~ — Bals. Canini

is stimulant, & in <sup>small</sup> quantity  
laxative, in <sup>large</sup> quantity  
inflammat<sup>n</sup>. hurtfull; after infla-  
mat<sup>n</sup>. is past stimulat<sup>n</sup>. injections  
are usefull, B. Canini is very proper.

A long continued use of it in  
Fluxus albus has cured it  
as. Ovar. internally, in dry  
belly aches & in disorders of lungs  
but I doubt the efficacy of Balsam  
in disorders of <sup>the</sup> breast, in  
less in asthma & hysteria  
B. Tolu is of some qualities.

Twopentline in obstinate  
coughs & given by glyster and  
otherwise. Truncation of it in  
4. miles does considerable service  
by Querc. is recommended in  
the & mercuritic complaints  
it should be dissolved in yolk of eggs  
& combined w<sup>th</sup> tart. emetic, in  
Rheumatism given thus, is very  
useful in its excitation from a veget.  
collected by insects, its virtues  
are of balsamics - externally in  
ulcers to prevent gangrene  
by R. Mon Benzoin used to be  
rector as the dose should be 15 or  
20 grains -

Wood. Liciumy uaria is diaph-  
oretic formerly it was used in  
venereal cases  
Sassafras encreases perspiration  
& is useful in cutaneous disorders

Star Sagarilla in like cases  
is stimulant & diaphoretic -  
removes relaxations & pains  
after mercury <sup>has been</sup> used in L. O.

Swige Laurel & liquorise an<sup>3</sup>  
Aqua Clois<sup>coq</sup> & is to be taken every  
24 hours for some weeks in L. O.

Portray<sup>was used</sup> in low nervous  
fever or other disorders, no ef-  
fects need be expected from it.

Aromatic<sup>of a</sup> & pungent & acid  
taste w<sup>th</sup> agreeable smell,  
all agree in virtue.

Cinnamon is most agreeable  
of cinna. is very useful in  
all weaknesses & languors  
after fevers; a good carm.  
inative, stomachic, in flatulen-  
cies  
& in gripes of children &  
Cloves more acrid & stim.

It is a fruit of a tree  
like our hickory in the  
west, they are used  
in disorders of the stomach & bowels.  
Pepper promotes the hickory  
It is powdered in a gill of  
rum (or delicious rummy)  
intermittents by the country people.  
Serpentaria virgin. is a  
stage of intermittents.  
I maligant fevers; I gene-  
rally order it in tea or infu-  
sion, particularly for nausea  
& hiccups &c. n. occurs in  
those fevers  
Ginseng is much valued  
by Chinese. It is a mild  
good masticatory.  
Cassavilla in China & for the  
it is good substitute for bark  
in fevers &c.

## Lect 24

## Stimulants

Bitters - Wormwood does not  
 act primarily <sup>nor do any bitters</sup> on worms  
 infusion of wormwood w<sup>th</sup> Sal tart  
 is diuretic & given w<sup>th</sup> propriety  
 in dropsy & jaundice - externally  
 Infusion w<sup>th</sup> corn. salt to pre-  
 vent gangrene - Carduus Benedic.  
 also diuretic, has been us<sup>d</sup> on inter-  
 mittents - Camomile also used  
 w<sup>th</sup> more propriety, it is antisept.  
 tho as all bitters are, very proper  
 drinks in w<sup>th</sup> operation of a vomit.  
 Tansey is used as antihysteric & against  
 dropsy - Eod. Aurant. is more  
 stimulant & antihystric  
 Gentian & lesser centaury are  
 stimulant bitters used in  
 intermitt. - ulcers &  
 Columba Root is strong pure  
 bitter in bilious vomiting  
 I have used it w<sup>th</sup> success

Cort Peru. was first discovered  
to — Governor Peru in 1640 —  
taken into Europe by a Jesuit  
in 1649 — it got  
into Disrepute but was  
again restored 1679 & has been used  
ever since — Its goodness is  
known by its weight & irritability  
taste, b. bitter w. aroma a deco-  
ction water depositer, a red sediment  
thick & full in requisites, — plethoric  
de-  
useful in debilities & relaxation  
best in July & Aug. to 3j — Dose —  
Indicated in periodical spasmod-  
ic affections, w. out inflammation —  
and last stage of croup & cough &c  
(not to be used in y. fit of spasm.  
acid disorders)  
In gangrene from relaxation  
in inflammations from weak-  
ness of solids —  
Principally employed in inter-  
mittents acts by its bitter

astringent and aromatic qualities  
intermittent, not owing to matter,  
so they're cured by astringents.  
An affection of y<sup>e</sup> nervous system  
is most likely cause, for it is  
cured by antispasmodics.

Regular returns of the paroxysm  
accounted for, from custom, but the  
best fit being most regular, it  
cannot be owing to that.

Determine the fluids to y<sup>e</sup> skin  
by vomiting & neutrals before  
giving the bark. Autumnal intermittents  
are tedious; patients should drink more in  
y<sup>e</sup> cold fit; — but in y<sup>e</sup> hot fit  
give warm drinks to relieve the head, let it be  
covered, to promote a diaphoresis.

If the fifth paroxysm is not  
longer nor feverish, & a sediment  
in the urine, these are favorable symptoms.

The nearer to the paroxysm  
the bark is given the better —

after the removal of <sup>the</sup> disorder, the bark  
to be given some time to prevent a  
return of <sup>the</sup> disease, flatulent diet &c. dis-  
pose to it — it sometimes ap-  
pear like Rheumatism, holic, tooth  
ach, head ach, pain & swelling  
of the <sup>eyes</sup> &c. — In <sup>cases</sup> of Bark the only medec<sup>n</sup>  
See Typhoid, Bark does not  
cause obstruction viscerum,  
jaundice &c. as has usually been  
thought —

## Lect 25 —

In all intermittents w<sup>th</sup> putridity  
& malarial <sup>to the bark is</sup> very usefull as antiseptic,  
whether usefull in continued  
putrid fevers is uncertain, but  
acids are more usefully employed  
Infusion of bark in wine in putrid  
fevers is usually given

In a very putrid case I gave  
glysters of Bark w. a l. Vermorel  
<sup>the head</sup> w. virgata & spiritus, gave wine, &  
Bark in hemorrhages w. infla-  
mat. Irritation is injurious but w.  
from relaxation ~~is~~ improper  
in ulcers without inflammatory  
diathesis, - <sup>very small dose</sup>, w.  
debility give it immediately after  
eruption, and if metastatic  
spots appear, give it at any  
period of disease. <sup>It is</sup> Successfully em-  
ployed in Crohn's  
in cancers or rather ill-  
conditioned ulcers - Improper  
in consumptions - useful  
in the m. & c. in w. great re-  
laxation takes place. Tonics  
of all sorts to be tried -

Bark is  
best given in full tance Red  
Bark is the best, it is stronger  
& more agreeable, & the other, it is  
from the larger trees  
A root of *Urnaria* *St. Ven*  
cent's call'd Rad. *Urnaria* is reckon'd  
equal to the bark, and lays best  
on y<sup>e</sup> stomach; y<sup>e</sup> to *Zizalade*  
*Casam*, aromat. in flatulencies,  
Hindjection, catarrh *serilis* &c  
may be usefully combined with steel  
for the Gout  
Portland's Powder is German  
German! ground pine lignith.  
wort & S. A. made into an electuary  
& continued for  
2 years in y<sup>e</sup> gout - Bitters have  
been long used for the same purpose.  
The powder stopp'd y<sup>e</sup> gout the per-  
son usually died apoplectic by  
the disorder being thrown  
into y<sup>e</sup> vitals -  
A strict regimen & much  
diet in the best method of Cure

The Noxium. Cause seems to  
be in the nervous system

## Lect. 26.

Case of y<sup>e</sup> Gout, in London medical  
observations

A Gentleman 45 years of age,  
who lived temperately, was in the spring  
seized by <sup>the</sup> Gout. he lived a life of violence  
the next fit was less than usual, but in  
16 months it returned & increased  
for some time w<sup>th</sup> great violence in  
feet, then sudden as lightning it  
seized the legs, leaving the feet entirely  
free  
then y<sup>e</sup> thighs, & then the belly and  
then y<sup>e</sup> stomach & upon vom-  
iting a  
green acid matter, he got imme-  
diate ease; and in some months  
another fit, in the like man-  
ner  
relieved as before - In the  
first attack the evacuation was  
near a pint, but in the second fit.

The corrosive matter was about a  
spoonfull the pit was instantly  
removed - the toes were left  
w<sup>th</sup> chalk-stones,  
In a future fit, a discharge of gassy  
matter from y<sup>e</sup> foot gave relief  
in like manner

Dandelion, succory, Endive & lettuce  
recommended in obstruct<sup>d</sup> viscera  
they should be taken in large doses  
Cuscuta is very acid w<sup>th</sup> fresh  
stimulates <sup>the</sup> stomach & promotes  
digestion, used in intermittent fever  
paralytic disorders &c.  
Mastard root is an acid stimulating  
medicines used as other stimulants.  
Orris Flor. Acid & stimulant.  
in infusion, its diuretic & cath  
anti  
Common flag is of the same  
qualities.

More, <sup>in large quantities</sup> ~~antivital~~ system, and  
Dyspepsia, gout & stone - It is  
serviceable in weakness & languor  
in hydrochondria it assists Digestion,  
best cordial in languor from fever  
when action of heart & arteries is  
low, it restores <sup>strength to the</sup> system, prevents  
coagulation of sweat, & even in deli-  
rium from languor, circulation, it is to  
<sup>begin</sup> diluted with water; it takes off  
Scurvy & strengthens the system  
the weak & effeminate wines are  
best - wine over there not  
very subject to nervous diseases -  
Malt Liquors are hurtful in  
indigestion & diseases of chyl-  
noetic viscera -

Stimulants obtained from <sup>the</sup> Curcuma  
kingdom are few

Marigold Flies peculiarly af-  
fecting urinary passages - They are  
given <sup>combined with</sup> alkalies in the dropsy  
They produce inflammation in ~~of~~ pharynx

stomach and intestines, given in large  
doses they must fail in nephritis,  
sometimes useful in gleet & flu-  
or albus. Dr. Watson used them  
combined w<sup>th</sup> bark & camphor  
in chin cough.

They are very precarious medicines,  
I do not use them internally -  
millepedes have been much  
used, not so stimulant as canthar.  
no sensible effect have I seen from  
Coccinella <sup>the</sup> is an insect of S. Amer.  
used for dysuria & to colour  
medicines

Viper has no peculiar virtues  
to entitle ~~it~~ <sup>it</sup> to a place in our

Pharmac.

Some general heads of substance,  
used as stimulants -

nutrientia by strength of food &  
increasing action <sup>of the</sup> heart and arteries.

Astringents may be used for the  
same purpose. ~~Sedatives~~ will be treated of hereafter.  
Acids are <sup>occasionally</sup> stimulant, & so are ~~stim.~~

## Lecture 27.<sup>th</sup>

Cold Bath stimulates & strengthens  
the system, The custom is very ancient  
in Italy & <sup>other parts</sup> Russians cut holes in  
ice & go in. Hippocrates  
first used it in medicine.

Antoniurus cured Augustus of hypo-  
chondria. Cold bathing - I am to enquire

- 1 What water is to be used.
- 2 What manner it operates.
- 3 What diseases indicate it.

1. What water — same  
choose sea water w<sup>h</sup> changes  
skin & stimulates, but corn.  
Spring or purrps water is best  
and coldest where a pure cold bath is  
indicated.  
And Used either by jumping into it  
or by y<sup>e</sup> shower-bath, from  
a higher or lower place —

Actly constricts extremities, & fluids  
are impelled to interior parts, & increases  
action of heart & arteries, & <sup>strengthens</sup>  
the muscular parts, promotes activity &c  
we should stay a very short  
time in y<sup>e</sup> bath, we should be  
moderately warm w<sup>h</sup> we go in.

2. Mode of operation —  
The body is divided into simple fibres  
Solida viva, or mus. fibres & fluids  
Cold Bath acts on y<sup>e</sup> simple fibres  
or on the moving fibres —

Too great relaxation or tensions  
of fibres produce disease  
Muscular system has a certain degree of  
tension, w<sup>ch</sup> altered by fluids -  
moving fibres as arteries have  
tension depend<sup>the</sup> on blood, hence  
bleeding particularly at deliquium  
takes off tension -

Contractility in y<sup>e</sup> living body  
depends on elasticity of fibres & in-  
flux of fluids

Tension of stomach is commu-  
nicat<sup>d</sup> all over y<sup>e</sup> system w<sup>ch</sup> it is  
relaxed, the whole system is languid  
hence y<sup>e</sup> effect of ward of spirit  
as of rum, wine, eating at a  
particular time &c. It has a  
particular connection w<sup>th</sup> super-  
ficies - (white on nerv.  
& vital motion) Tension of y<sup>e</sup>  
system is increased by a nervous

influx from anger &c -  
same passions, as fear, diminish the  
strengths - Warm Baths relaxes  
tensity increases sensibility  
& irritability & produces nervous  
diseases - (V. Sweeten in a  
nervous irritation & laxity of habit  
ordered of warmth from head to  
foot Cold Bath gives tension  
to *viscera viva* - by increase of  
nervous influx -

Cold Bath gives vigour &  
alacrity to the studious & sedentary

3 Cold Bath is useful for *steria* *Epilepsy* & all diseases from  
mobility & irritability -

*Hypochondr.* <sup>attracts</sup> *vigil* Habits  
in cold climates, not obstructions  
of *chilopoetic* *viscera*, Cold Baths  
*Epilepsy* in Children as are  
from debility use cold baths  
Rashes are from want of nerves

influen

A Boy in Palsy of y. lower extrem.  
was cured by being placed under a  
millfall

Madness is cured by cold bath-  
Intermittents <sup>cures</sup> from inertia of y.  
overworn power & spasm of supren-  
sives nothing seems so likely to prev-  
ent it as cold bathing (V. Swi.)

He recommended in violent fevers by  
Galen De Haem. Sifcat & V.

Indians in y. country heat  
themselves in cabins, then plunge  
into the river & then again to  
their hot cabins to sweat in  
fevers

Recommended by Boyer & others in  
Chronic Headaches; Chronic  
Rheum. also cured by N, when  
mat. affects head teeth &c.  
It has been used

Used in arthritis very long,  
should not be used in the winter  
but at other times to  
prevent it.

## Lecture 20<sup>th</sup>

The Cold Bath is used w<sup>th</sup> success  
in calculous complaints of kidneys  
(Aurelianus) use only in the sum-  
mer; we ought when we give  
a medicine to know well y. the  
effect <sup>the</sup> operation of the medicine  
a relaxation of the kidneys is cause of  
calculi, - or at least the  
irritation produces a relaxation.  
Cold bath takes off irritability  
& gives tone to y. system.  
The bladder is relaxed by retention  
of the urine in nocturnal  
pollutions (w. is from relaxation)  
gleet from strain, use cold  
bathing.

Chronic colic, & obstinate consti-  
pation <sup>are</sup> cured by it. It is best preserva-  
tive against cold, it prevents &  
cures most diseases of children.

Dr. Harnes, has theory of acids in stomach  
too general in children weak  
stomach, or laxity of solids view  
more generally <sup>the</sup> cause of the disorders  
& even of acidity itself in child.  
The roots being from debility, cold  
bathing is best treatment.

From the indications you may judge  
where cold bathing is necessary.

In all cases of rigidity &  
tension it is injurious. In consump-  
tion it will produce hæmoptoe  
cases, <sup>supposed consumption</sup> where it has been used <sup>it succeeds</sup> have  
been mistaken, being dysp-  
noea.

The symptoms <sup>are</sup> sometimes similar  
only in hypoch. the symptoms  
are spasmodic & alternate  
or other, continual —

Cold bath hurtful in every in-  
flammation w: generally occurs in  
plethoric sanguine temperam-  
ents where there might be danger of  
rupturing the vessels —

Decatases, are, which diminish mo-  
bility of system & elasticity moving fibres.

v. Bullen

Opium is a medicine of great utility  
great disputes have arisen  
w: regard to it which affect  
whether it rarifies the blood or acts  
primarily on nervous system, &  
whether it excites or diminish  
the action of the heart and arteries

(Travice) If we consider the  
small dose of opium, its effects  
in rarifying blood w: is from  
25 to 30 lb. is very small —

89 If one grain of opium rarifies blood to  
what a bulk will it enlarge it to.

(Dr. White & Murro)

Opium acts immediately on nervous  
system without affecting <sup>the</sup> humours  
yet the humours may be seconda-  
rily affected by it.

## Lecture 29<sup>th</sup>

Whether Opium excites the action of  
the heart and arteries, or has the contra-  
ry effect? Frallicse, Waller &c  
are of the former opinion, White, Murro, &c  
the latter.

The peristaltic <sup>motion</sup> of stomach  
& intestines is involuntary &  
affected by opium; so is motion of  
heart by opium, it is not only  
diminished but entirely stopped by  
it. Opium in particular  
cases as nausea of stomach, anxi-  
ety, palpitation &c may increase

the pulse, but experiments  
should be made on healthy bodies  
to determine the virtue of medicines  
in some diseases of bowels  
moves laxative yet no one  
calls opium a purgative —

It accumulates the fluids in  
y<sup>e</sup> larger vessels & lessens <sup>lotion</sup> ~~circulation~~  
relaxes y<sup>e</sup> fibres hence it lessens  
the <sup>natural</sup> heat; anther use of Opium  
the thermometer being applied  
the I felt — Opium produce  
cheerfulness, respiration, &  
alleviates pain, resolves  
fractures causes a sense of  
fullness, procures sleep and  
quietude of mind. The  
lower extremities are sooner  
affected by it. In the upper the  
circulation being weaker. It  
produces cheerfulness by taking  
off disagreeable sensations

in some constitutions, instead  
of sleep it produces fullness.  
some preparations in some con-  
stitutions have different effects from  
other preparations - In some cases  
full doses are best, while in  
others the smaller, repeated, just  
better by removing the sense of danger  
given by the full dose.

It renders a pulse slower by di-  
minishing the action of heart & arteries -  
All the pulse is owing to relaxa-  
tion of the vessels & accumulation of fluids & by  
making the circulation slower, it less-  
ens the animal heat.

It diminishes the secretions all but y.  
insensible perspiration by taking  
off the resistance at the surface  
& relaxing y. vessels of skin & pro-  
moting corruption of mucus while y.  
irritation & sensibility of y. other

secretory organs were preserved  
Opium in y Cataract is useful  
by taking off irritation <sup>trachea</sup> of  
produces coughiness by taking  
off the irritation from bile &c

In cholera, & other diseases where  
bile is too copious <sup>as</sup> Opium, indicated  
w<sup>h</sup> diminishes quantity of y<sup>e</sup> bile  
renders the ~~even~~ respiration  
slower by taking off y<sup>e</sup> stimulus  
from the lungs.

Distends the blood vessels, narrows  
 cutaneous by removing the irritation  
 of the  
 & fever vessels from flow respi-  
 ration hence a plethora about  
 the head from its nearness to lungs.

Difficulty of respiration from emphysema  
is best kept in the trachea, by its impenetrability, hence in pulmonary disorder  
it should be combined with quinine.

It promotes sleep by removing  
the irritation fr. external objects &  
compressing the mind, the manner  
of this operation is inexplicable  
after the operation. a sense of  
weakness & dullness remain  
w. go off gradually

## Lecture 30<sup>th</sup>

Opium used in <sup>pain</sup> is from  
inflammatory distention, spasm, or irrita-  
tion. It is from inflammatory distention, opium  
is a very uncertain medicine, unless  
to remove irritation then combined  
w. quills or Arctium preparations  
In acute rheumatism, <sup>it is</sup> inunctions;  
in toothache w. <sup>it is</sup> is useful. In the latter stage of gonorr-  
hea it is useful; it promotes suppura-  
tion by giving ease & suffering  
nature to do her own work

<sup>Spasmodic</sup>  
Opium or pain, & flatulencies  
cholera & Diarrhoea Opium  
to give ease, & so in the bilious  
colic w<sup>c</sup> is spasmodic; pur-  
gative also, <sup>blee</sup> used to prevent consti-  
pation after <sup>has given ease</sup> opium, in spasmodic  
affections of stomach, & of y<sup>e</sup>  
uterus w<sup>c</sup> is either at the menstrual per-  
iod, at y<sup>e</sup> appearance of lochia, or  
in child birth; in grinding pain  
after birth, if not from in-  
jury in <sup>delivery</sup> Opium is useful.

In false labour & threatened  
miscarriage give Opium unless  
a flooding makes delivery necessary  
In menstrues use Emollient  
mucilaginous infu-  
sions of opium to diminish the  
sensation of pain

In tetanus, lock jaws &c from  
winding of nerves give Opium  
largely

(Cases in London Med. Essays) where  
the part can be amputated  
no more should be lost - Opium in  
large quantities -

Asthma is from a constriction  
or a discharge of mucus from lungs  
if the first case Opium is very useful,  
combined with Secac. & pills  
used in headache - if from a  
disordered stomach, Emetics &c.  
if from weakness use bark, water  
if from nervous complaint, Opium

For Pain from irritation  
Opium is only palliative as in Cancer  
venereal nocturnal pains, in  
coughs of the last stage of consump-  
tion, it gives ease  
has been employed in inter-  
mittents half an hour  
before the fit, <sup>with advantage</sup> and acts as anti-  
spasmodic; in nervous fever  
to give quietus at night -

In the Dysentery & Diarrhea  
after evacuations, Opium <sup>is</sup> useful  
especially w<sup>th</sup> Ipecac. to prom-  
ote Diaphoresis -

Glauc. Sal. in small & re-  
peated doses given every  
Day & Opium, at night, and  
if gripping pains <sup>are</sup> visited  
Castor Oil is usefully joined  
to Opium or with the laxatives.

In Catarrh from irritation  
w<sup>th</sup> discharge of thin acrimonious  
humors Opium is to be given.

In the rough accompanying mea-  
sles (w<sup>ch</sup> is from an irritation  
of the lining) bleeding, <sup>Disseminated</sup> eruptions  
& oritates are to be used, In  
Hemorrhages by diminishing  
action of heart and arteries. Pru-  
um is useful particularly if <sup>the</sup> evac-  
uation is from brain.

4<sup>th</sup> hemorrh.  
If inflam<sup>n</sup> accompani<sup>es</sup>, Opium  
gives only a temporary relief - also  
if from Debility Opium w<sup>ill</sup> do little good  
Opium is lately used as an an-  
verreral, - discovered by a British  
officer at W. York by accident -  
They begin w<sup>ith</sup> doses of 10 or 25  
& increase to 40 or more daily -  
in watery solution as injections  
I have used it in several  
cases & w<sup>ith</sup> advantage I give  
it often w<sup>ith</sup> out any addition  
& sometimes in old cases I com-  
bine corros. sublim. or Calom.  
w<sup>ith</sup> it - Opium is infused in wine of Perry  
g<sup>ives</sup> effects sooner <sup>obtained</sup> from solution  
if it is long continued the  
dose must be increased  
Acids are the best antidote  
to opium - corrosive also to  
be used to prevent its ill effects

Lect. 31-

Cicuta. There <sup>are</sup> several plants called <sup>ta</sup> Cicuta  
 Leonurus. or Cicuta of Stork is  
 the species here intended, which is  
 used internally & extern. in fevers &  
 Cancers of the Scrophulous & venereal kind  
 Cancer is (according to a Swedish writer)  
 either Genuinosa, fungosa or scroph-  
 ulosa  
 Genuin. begins as a small hard  
 indolent tumour; at first firm <sup>the</sup>  
 then <sup>becomes</sup> rough and increasing from  
 bulk of a pea to the largeness of  
 an egg. which at first is moveable  
 then fixed — when they become  
 lips are hard and rough, & anichor,  
 various <sup>discharge</sup> of excurials enrothent  
 & do hurt, there arises in turn  
 or at alterations of weather, at merist  
 in various if seated high about  
 of pectoral muscle most dangerous

In this species, Cicuta is  
most full of emerales, rain —

In cancers of mouth sometimes it  
produces salivation as mercury —  
after the glands of ammount are af-  
fected no cure can be made,  
unless the glands be exterminated w<sup>th</sup> is  
ruined by y<sup>e</sup> subclavian artery  
Cancers are brought on sometimes from  
sudden passions of mind producing  
obstructions in secretory vessels of organ,  
w<sup>th</sup> stagnation of fluids acquire y<sup>e</sup> lacrim.  
onious nature of a cancer, this acid  
matter did not crease in y<sup>e</sup> blood

Cancer germin. w<sup>th</sup> at first  
local and may be extirpated by the  
knife, or some medicine such as  
Guy's powder — No root should  
be left — Scrophulous Cancer  
is not local —

Cancer Fringosa begins as a  
small growth quick and becomes  
spongy

In 5 or 10 months it grows to the  
bulk of a man's head, <sup>spungy</sup> & finally the  
head of a cantiflower was broke  
w<sup>th</sup> a very great discharge, it  
ruffs up into heights in dif-  
ferent places -  
[a case, <sup>beginning</sup> from a purulent pain  
the tumor of the  
bulk of a pea; the hemorrhoids  
for some weeks gave up, but it broke  
having increased to monstrous size &  
of a warty appearance, he vomited  
blood and on dissection, we found her  
Intestines indurated the spleen large  
[a case of a patient from her most fruitful  
the child there occurred a  
swelling of the thoracic muscle, w<sup>th</sup>  
appearance like the ears & the pain ex-  
tending to the arm & hemorrhoids was  
used w<sup>th</sup> out advantage shooting  
mammaries to the head & arm &c  
Next ordered the breasts to be  
sucked by suckers w<sup>ch</sup> caus-  
ed great pain, a ferrous matter was  
discharged by breasts & the recovery

Toads have been <sup>used</sup> in like manner,  
put in a fine lawn bag & applied  
to the sore, unless confined in the bag  
they will not take hold of the <sup>Ulcer.</sup>  
Scrophulous Cancers owe <sup>their</sup> origin  
to a vitious & peculiar constitution -

Scrophulous <sup>cancer.</sup> are not yt. indurated of  
glands in <sup>the</sup> <sup>child.</sup> from teething colds  
nor yt. glandular <sup>at</sup> hardness <sup>or</sup> suppuration  
nor glandular hardness in consump-  
tion from venery

but a hard tumour glandularium  
of white red and blue colour, w. resist  
rare. w. red or blue <sup>white</sup> thread  
w. w. to nothing, but if knife  
will extirpate. In venereal Cancer  
a long course of mercury internal  
& external to alter the habit  
will remove yt. disorder  
In first <sup>appearance</sup> only to be distin-  
guished by the colour - want of pain  
blue red colour after some  
time

by its springing up in different spots,  
never owing to passion, or mind, nor  
usually in good constitutions —  
fallen countenance, & one of  
y. eyes, indurated lines in the  
glands of y. arm, the green &  
some of y. turneridge charge a  
whitish matter & heat, others  
are red & fetid ichorous matter  
Mercurial plaster, mercury  
internally as Corros. sublim.  
long continued & in large doses  
usually cure it, solution of sublt.  
used externally w. advantage  
here ~~only~~ <sup>mercur</sup> is usefull &  
properly combined w. barko —

## Lecture 32

Cancers of the breast are always from <sup>the</sup> fist  
at first they may be eradicated by the knife -  
all other swellings from milk, venery  
and other causes <sup>not</sup> cancers.

Congestions from milk seldom produce  
cancers, Indurations from the  
milk to be treated with emollients

Lethargy or slumber, women should suckle  
their own children

When scirrhous are formed, they immediately  
are to be extirpated - They are to be  
prevented by avoiding sudden passions  
every thing irritating the nerves, by gen-  
eral exercise, fresh air &c.  
Open cancers are infectious -

The reason w<sup>h</sup> such cancers soon  
arise - From the conformation of <sup>the</sup> breasts  
and the temperam<sup>t</sup> of women we ac-  
count for cancers in women's breasts  
often more than men

Cancers affect the blood from  
old ill treated local cancers -  
Venereal forces distilling from can-  
cers by their being ulcers in the  
cuticle known by white matter

2. Scrophulous venereal are hard indolent  
tumours, gangrenous <sup>venereal</sup> tumors are  
known by softness, by a black brown  
colored skin about edges is hard  
red & smooth, best application  
is a solution of coral. sublt.

another kind begins hard  
tumor or greivous tumor with  
pain & swelling <sup>part about it</sup> there is solut.  
to be used internally & external  
Cancer of the tongue very red & hard  
w<sup>th</sup> varicose veins

Case - A tumor of the tongue w<sup>th</sup> tooth  
growth turns soft & <sup>grows</sup> rapidly  
cured by calomel. w<sup>th</sup> are cured  
w<sup>th</sup> but are oftened in blood coral

Ulcers of tongue & lips have been  
cured by mercury & bark

<sup>the</sup> Cancer <sup>is</sup> always coming on slowly; they  
at first appear like warts & are  
only & feebly very hard, rough  
sharped edges no white matter  
discharged but a thin acrimonious  
humour

venereal fores grows up quickly,  
great fetid discharge when they  
break

Covers a part only whole ulcer  
w<sup>th</sup> calomel 24 hours if the fore  
mut on a better appearance  
it is venereal & vice versa  
ven<sup>erous</sup> Cancer to be cured by  
mercury Landanum, cicuta

Asyric gr. 10. distilled water  
a spoonful 3 times a day w<sup>th</sup> milk  
and mucilaginous substances

when one virtue is taken, up  
another, virt<sup>us</sup> is <sup>not</sup> goodly. in like  
manner, this is f<sup>or</sup> to be a powerful  
medicine, but it brings on para-  
lytic affections eyes & other  
parts. — Guy's powder is not  
always a proper remedy &  
where the knife can be used  
no thing is so proper.

Cancers are palliated by antihist  
glistics & opiates — where y<sup>e</sup> can-  
cer is curable by arsenic, i. e.  
in Cancer Vermiform. it is  
best in solution, and should be  
used with the greatest caution.

### Lecture 33

Belladonna is very virulent, it  
has been used in decoction  
against cancers, beginning w<sup>th</sup>  
one spoonfull for a dose

Cafe (see Gullen's Mat. Med)  
Internal remedies are only useful  
in cancer scirrhous &c.

*Nyctagynus* or henbane pro-  
duces narcotic effects and paralytic  
action of it is in milk puer in pains  
abdominis & affections of spasm

*Nicotiana* is nauseating & turbulent &  
narcotic; by smoking toba-  
co, the cholera has been cured; its  
chief use is by glyster in  
flatulences & spasmodic affections  
abdominis - its internal use  
is very uncertain; the syrup is used in  
catarrhs

*Lauro. cerasus* poisonous to most  
animals & also to man.

Tea & Coffee — Tea particu-  
larly in weak is sedative & narcotic  
in some constitutions it produces

spasms by relaxing the nervous  
system —  
Coffee — from its manner of <sup>its</sup> prepa-  
ration contains an empyreumatic  
oil and is antispasmodic —  
Disorders are changed from inflam-  
matory to the nervous, since <sup>the</sup> intro-  
duction of tea & coffee —

Saffron in doses of ʒi or ʒss  
produces some effects, it raises  
the spirits — best used  
in the <sup>artificial</sup> ~~artificial~~ of children, apply-  
ed to the navel in form of poultice  
Spasms is constriction, usu-  
ally involuntary —

Antispasmodics indicated in  
all spasmodic diseases, as  
Hysteria — w. irritates calm  
off all diseases, affecting body  
& mind — This

Disease arises from <sup>an</sup> affection of the  
nervous system & a spasmodic irritation of  
bowels & chylonic system  
—

of those most generally affected are  
Some, veritable constitutions,  
w<sup>th</sup> great mobility, who <sup>would</sup> impatient  
who are of fair complexions, &  
delicate habits, and who have  
large mercurial humors, & who  
live indolent; mostly from  
neglect to the cessation of exer-  
cise, carriers of commerce  
often affected w<sup>th</sup> them -

sudden passions, strong passions,  
 brights, acute diseases, those  
 all but every thing is not  
 at any new words for them occasions  
 "it is"

The symptoms of  
Hydria are languor,  
diminished sight,  
oppressed face, alternate flushing  
large quantity of urine  
mark in the back of a hump.

rising in a sudden anxiety  
fluttering of heart, constriction  
of the <sup>throat</sup> & any - pulse falls.

at length of patient first  
into a sleep or delirium  
sometimes distortions, convul-  
sions, rumbling in belly &  
saulting off speech, imaginary  
forms appear before the eyes  
rigors & coldness of extrem-  
ities fixed or wandering amacul-  
or dull pain of head, cardiac  
gias, vomiting, some have  
diarrhea, suppression of urine &

### Lecture 34.

Hysteria sometimes returns periodical-  
ly, sometimes of few or on last a few min-  
utes at other times it lasts hours, days  
sometimes perpetual, and especially  
about menstruation it lays  
foundation for many disorders. It is  
distinct from Hypochondria  
this usually attacks men

of melancholy rigid habits -  
at full veins; it comes on slowly;  
most common in old age, &  
in those subjects of piles -

The moveable ball <sup>felt by hysterical subjects</sup> never ex-  
ists <sup>here</sup> <sup>nor</sup> the constriction of a common  
ovoid hysteria - In hypochondria the  
mind is steady, w<sup>th</sup> an aversion to  
company & dulness -

Affections of the alimentary canal, of the  
stomach & uterus are often  
mistaken for hysteria -

Danger is accord<sup>g</sup> to affections of  
vital functions - When it  
continues long, & occasionally obstructed,  
& it is difficult to cure -

Indications of cure are 1<sup>st</sup> to avoid  
occasional causes. 2<sup>d</sup> to relieve  
the symptoms in paroxysm  
& prevent a return -

In the paroxysm, the symptoms  
urged & from obstructed  
menstruation, &c. &c. we must  
be in small quantities -  
In perturbation of mind, sedatives  
& antispasmodics - in coma, give  
nervines & stimulants  
locally - externally apply  
a fomentation of warm water, or  
tobacco, and stimulating glysters  
warm fomentations then ster-  
nitatories - internally opium  
Camphor & vol. alk.

Cordials after the fit to refresh  
the patient

To prevent a return, a non-  
rising diet of easy digestion -  
avoiding acrid flatulent substances  
use moderate exercise in cool  
dry pure air, guard a-  
gainst sudden transitions of heat &  
cold - riding & walking  
in cool dry air

change of objects, of climate & air  
mind kept cheerful, are all useful  
natural & habitual excretions & secre-  
tions are to be well attended to.

Narcotics antispasmodics &  
astringents or tonics are y<sup>e</sup> med. used.  
The effects of y<sup>e</sup> two y<sup>e</sup>st are soon over  
& tonics are now to be relied on  
of Decatives Opium, Cast & particular  
usefull in irritable habits.

Of antispasmodics Vol. 1. Atk. foot  
burns, small hemorrhages &  
are used  
debility, irritability & mobility  
of the alimentary canal & usually  
accompanied, or owing to debi-  
lity - & tonics remove these symp-  
toms, & exert y<sup>e</sup> action of moving fibres  
in sanguineous & perant. & visceral  
abstractions, requires caution in  
administering tonics, as bark  
steel bitters Colic &c  
particular constitutions  
require different medicines

terrors sometimes cures it —  
Sometimes after all our en-  
deavours, we must trust to diet  
change of air &c —

It is spontaneously cured by a change  
of the constitution, by matrimony &c.

### Lecture 35.

What I have said on <sup>hysteria</sup> will apply  
to nervous dyspepsia generally —  
Acase has <sup>diuretic</sup> & <sup>diaphoretic</sup>  
dose is from 10 to 15 grains <sup>in</sup> substance.  
a solution in water is a best pre-  
paration; or dyspepsia, flatulencies  
& spasmodic colics, by glyster  
recommended cathart. ferrilis  
as a diaphoretic

this disease is from obstructed  
secretions, especially, nervous  
Garlic given for the same purpose  
frictions flannel shirts &c  
a case has been cured by

& emmenagogue; it is obtained from  
anlant in Japan -

Gum ammoniac is not so antispas-  
modic, but more pectoral

Vol. Alk. is antispasmodic  
useful in last stage of nervous fevers.  
Columbo, g. r. cancrio, vel cum  
tart. emet. pro re nata -

It produces no great stimulus  
to y. blood - (Purging has  
proven) it is not specific.  
in last stage of inflammatory fevers

Volat. alk. are useful In indi-  
gestions, wandering gout &c  
Castor, no benefit by com-  
bin. it w<sup>th</sup> afofetida, given by it-  
self it acts as afofet. but weak  
must be an antispasmodic

Other is antispasmodic & sud-  
den in its operation.

Oleum succum Britisk & Hardham  
oil in spasms & in statu  
lencies -



It weakens the hydroptic vis-  
cera & moves penetrating; Diaphoret-  
ic & antispasmodic quality relaxing  
the skin; where stimuli are indi-  
cated camphor will not answer as  
it lessens action of heart & arteries  
It prevents putrefaction in animal  
substances, Its chief action is on  
the nerves of the stomach from whence it is  
communicated over the system  
Camphor in <sup>useful</sup> dysentery where spasm  
occurs, in epilepsy, in fever it  
can only act as antispasmodic  
in nervous fever, in inflammation  
of skin, erysipelas it stops hemor-  
rhages, removes nocturnal pollution  
Use it from 5 to 10 gr. in a bol. & conf. ref.  
in nervous fever - in last stage of  
dysentery & theiaca

Lect 37<sup>th</sup>

Medicines w<sup>ch</sup> act on fluids -  
for a particular acc<sup>t</sup> of fluids see  
Cullen's Materia Medica -

There are certain diseases in w<sup>ch</sup>  
blood is not only vitiated but it is  
mainly -

of medicines & altered  
considerably change the blood & hum.  
only a course of animal food

putrid diseases are brought on -  
Attenuant<sup>g</sup> & such substances as  
destroy viscosity of fluid

Water internally excites & appetites  
& removes spasms & promotes  
perspiration & checks vomiting  
in low putrid & nervous fevers  
it is in inflammation useful

Warm Water relaxes and opens  
bowels dilutes viscosity<sup>in</sup> bowels  
promotes urine & prevents  
obstructions viscerum - in fevers  
particularly warm

I have ordered of carbonated <sup>aerated</sup> water <sup>every</sup> mor.  
in indigestion, flatulency & w<sup>th</sup> advantage  
it is perhaps only <sup>an</sup> attenuant  
alkali from dissolving food w<sup>th</sup> out of  
of body, have been thought atten-  
but the quantity & change in prima  
via. hinder its effect this way.  
Lime water acts as a gentle astringent  
corrects acidities <sup>in the</sup> stomach, strengthens  
urinary vessels. in chronic  
dysentery where there are ulcers  
the in ferophula, chronic low  
intermittents, in ulcers it is given  
Lime water with castile soap in  
eruptions w<sup>th</sup> excitation in  
eruptions -

Soap is reckoned attenuant & deterg.  
liable to decomposition in y<sup>e</sup> stom.  
dissolved in water <sup>& given</sup> against poison  
in infections & obstructed hypos-  
pylerat in dysentery & diarrhoea  
into an emulsion w<sup>th</sup> yolks of eggs -

is a very good application  
Yaspisolved in milk, in indurated  
cancer of breasts from milk & in  
disorders of joints. —

Infusoria (Cutters) are  
demulcents. *Q. arabic* in acids  
refluxions of breasts, dysentery &  
hemorrhages from irritation —  
*Q. Tragacanth* is good for same purpose  
*Ichthyocolla* more nutritious & glutinous

Marsh-mallows, Linseed &  
are all of y<sup>e</sup> same quality & sellen  
Antacida — no acidity is  
beyond the stomach & are  
in y<sup>e</sup> blood  
as forbersts destroy acidity & Mag-  
nesia & eyes — &c?

Eucaine irritate y<sup>e</sup> membrane  
of nostrils & fauces. Those used  
are turpentine, Asarum & Tobacco  
may be useful in headaches  
toothaches &c but are seldom  
applied in y<sup>e</sup> present practice.

The effects of it are clearly seen  
in use of tobacco.

It is more active, & sometimes used in disorders of  
ears &c. in a palsy their  
use is improper.

Tobacco is narcotic & injurious  
to some constitutions, but whether  
the evacuation of saliva is hurtful  
as some have supposed I am un-  
certain, for as more is discharged  
so more is secreted in y. part.

## Lecture 30<sup>th</sup>

Expectorants these discharge mucus  
from y. <sup>& breast</sup> lungs, it is done by stim-  
ulants & antispasmodics -

Stimulant pectorals are given by  
syring royal, elecampane, & spirits  
Disorders <sup>of the</sup> tongue, inflammation  
obstruction & spasm. From

inflammation of pleurae, consumption  
antiphlogistic regimen <sup>to be</sup> covered  
of treatment  
asthma & wine occasionally  
milk diet fresh air &  
The cough relieved by mucilage  
& sweet to hold in mouth

Obstructions are 1. Scrophulous  
known by habit of the patient  
cicuta mercury, min. water  
are to be used  
2. Nutritious obstructions in asthma  
squirils a safe & d. antispas-  
modics  
3. Crasmodic obstructions use opium  
camscill. vel artim. R. 3. Acet  
seill - 34 ag. bism - 22 gr. 60  
sacchar. s. hauff

Diagogues secrete the saliva  
all solid substances & are great salivary  
mercury is principal diagog  
its stimulus on all secretory  
organs particularly salivary glands  
the dried preparation acts on the stomach  
achy & more mild on the bowels

acts  
united on the salivary glands  
by some peculiar chemical  
relation — vapour of quicksilver  
acting on nerves, and produces torpor  
& puffy — ~~to~~

Lesions of two species. 1. Gonorrhoea  
w<sup>ch</sup> is an intense local disease,  
Fordice cured it radically by a solut.  
fixed alkali. it should be weakly  
immediately used after infection  
we usually employ the antiphlog-  
istic regimen gentle laxation,  
with fomentations. <sup>some use</sup> injections of  
mercur. unig.<sup>t</sup> cum ol. olive. Topical  
bleedings — w<sup>ch</sup> inflamm<sup>n</sup> is removed  
afterwards may be <sup>with salt</sup> used as solut.  
Chordee relieved by Camphor  
+ opium — Use no injections  
I give sal. gluc. constant em.  
in small q<sup>ties</sup> opium to procure rest & drug  
regimen

A confirmed Lues may last  
in the system for years conceals  
suppurating  
buboes, w. paining head & rest  
lessness phagedenic ulcers  
excrescences

Mercury is the <sup>chief</sup> remedy  
milder preparat. are best to procure  
salivation - Corrosive subl. w. opinion  
determining of skin - best anti  
dote to phlegm. is alkaly. w.  
decomposes it  
salivation to be avoided by deter-  
mining to the  
min, & skin, by warmth, for irritation &  
buboes are excused by mere fric-  
tion applied below & part

Some patients as scabies with  
weld it, wild ramunculus - Opium

Lect 39

Mercurius <sup>the</sup> is recommended for bite of  
the mad dog, & should be applied im-  
mediately & continued till a salivat.  
brought on -

Mercur. is employed in all obstructions, sores, scurvy and in every -  
soul ulcers, in obstructions of  
viscera crude mercury has been used but  
it is only act by its weight  
Yaws, com. in high lands of Scotland and Africa  
Symptoms are a pain in the throat; a difficult swallow  
a swelling of the glands - eruption on back  
groin & genital, the mouth &  
fauces are affected with pain & ulceration.  
sometimes infectious -  
treatment the same as venereal  
disease by mercury internally  
& externally -  
Slaves are peculiar to children under  
12 years of good robust health -  
It begins slow w<sup>th</sup> languor & <sup>weak</sup> ~~languor~~  
like a cold, the breathing is quick  
& laborious pulse soft & irregu.  
speech is difficult or obstructed -  
a particular wheezing, some-  
times ~~flushing~~ of the face &c

The cause is a protomatural mucous  
membrane in the trachea from secre-  
tion of mucus w<sup>h</sup> is abundant in young  
people - (Disting<sup>u</sup>ish<sup>ed</sup> from

Spar<sup>asm</sup>odic diseases of the lungs <sup>which</sup> come  
on suddenly & do not change the  
voice, no secretion of mucus.

Spar<sup>asm</sup>odic <sup>causes</sup> are not soon or often  
mortal & yet to bleed, blisters  
Antispasmodics

Pre<sup>dis</sup>posing cause of this is a  
moist atmosphere & gross habit -  
This is divided into two stages & is  
dangerous particularly the last stage  
first favorable symptom is ever  
cough & stronger cough

Bleeding may palliate - some  
blisters - vomits are not to be  
depended on - purgatives & especi-  
ally calomel w<sup>h</sup> affects glands is  
most to be trusted

I gave 20gr in 16 hours to a  
child of one year old

in a large quantity of calomel is  
better than a strong emetic is to be given

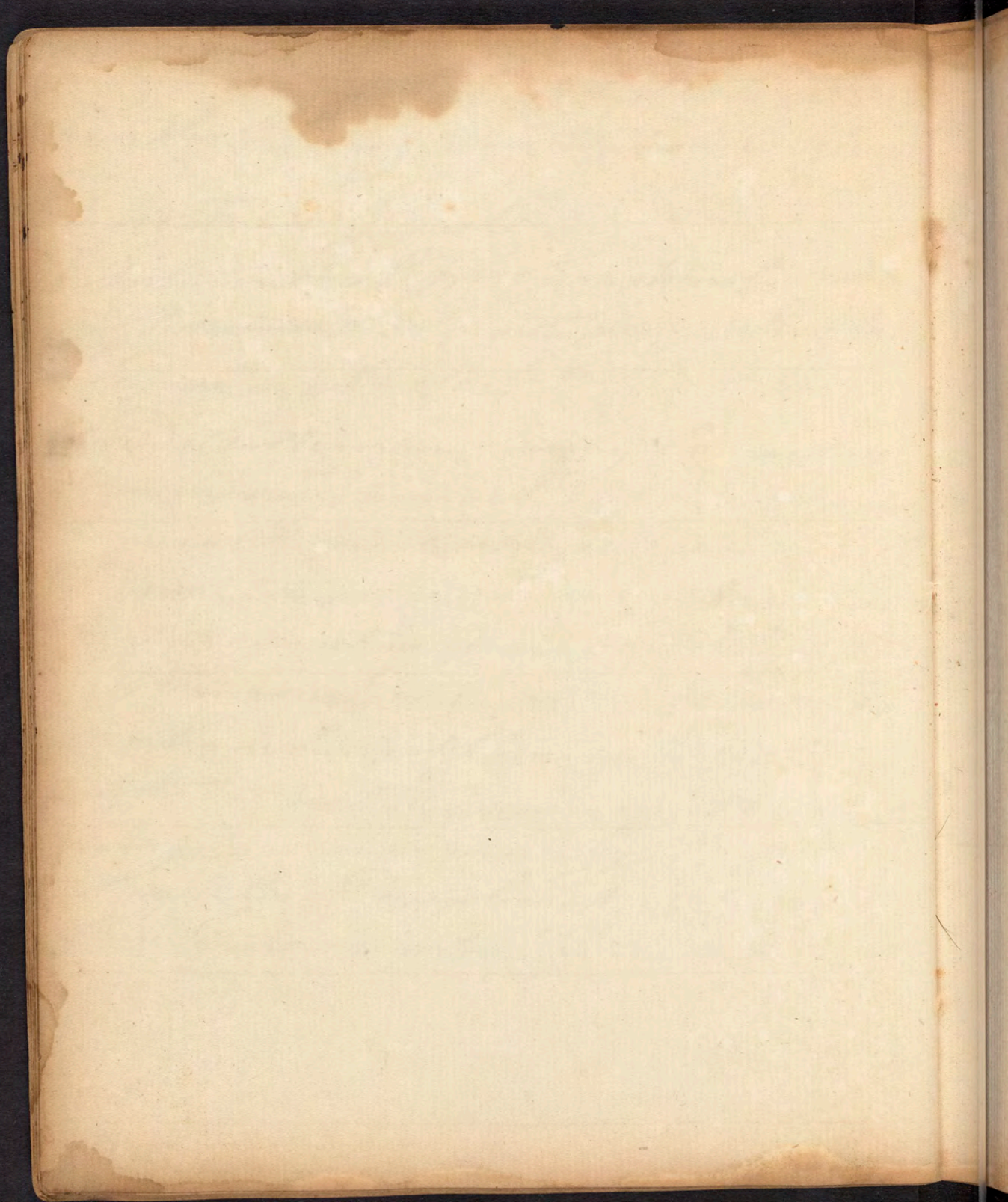
## Emetics (Cullen)

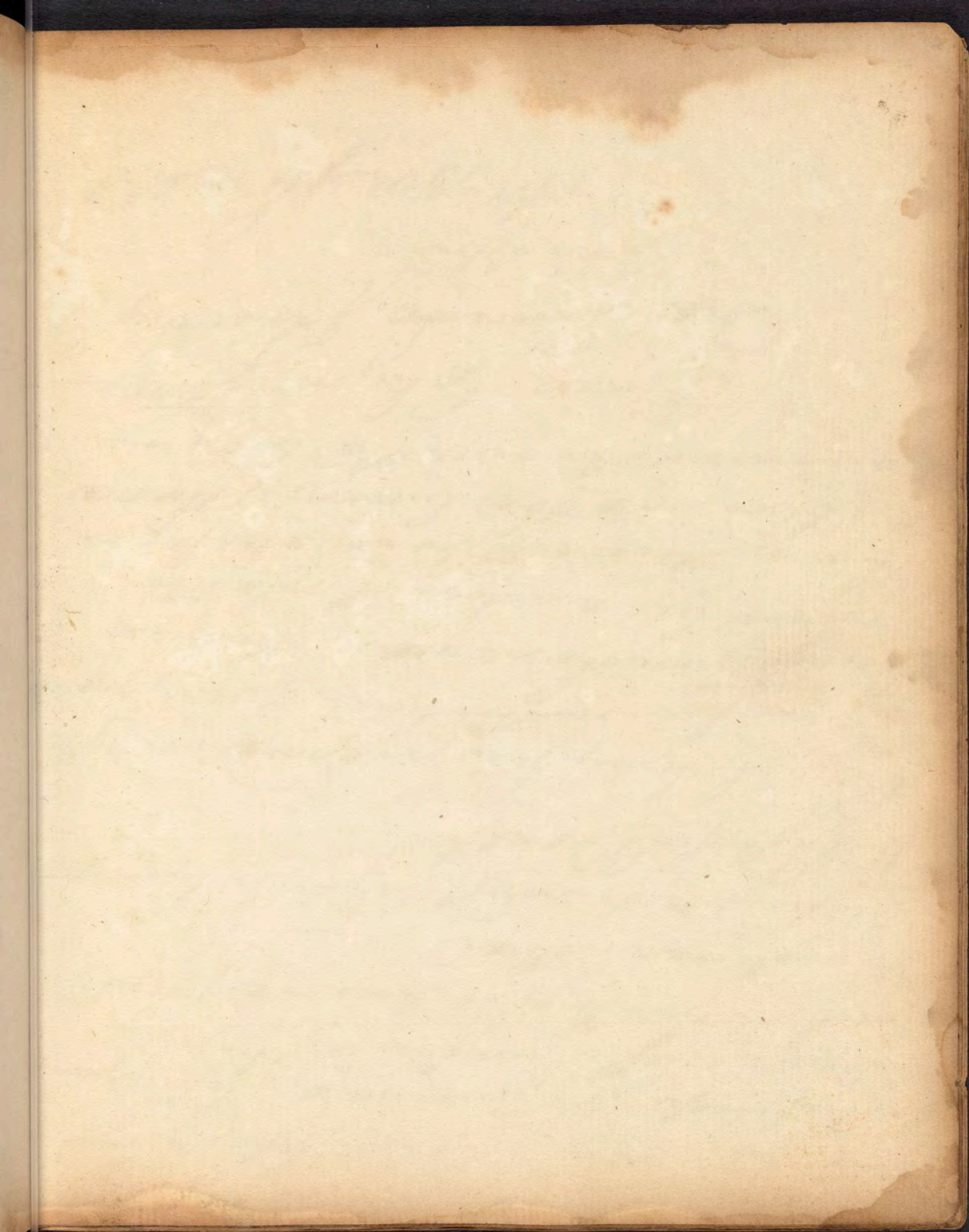
Antimonial preparations. Crude  
antim. contains two parts, a regular & subp.  
The prepar. are all of a blue nature

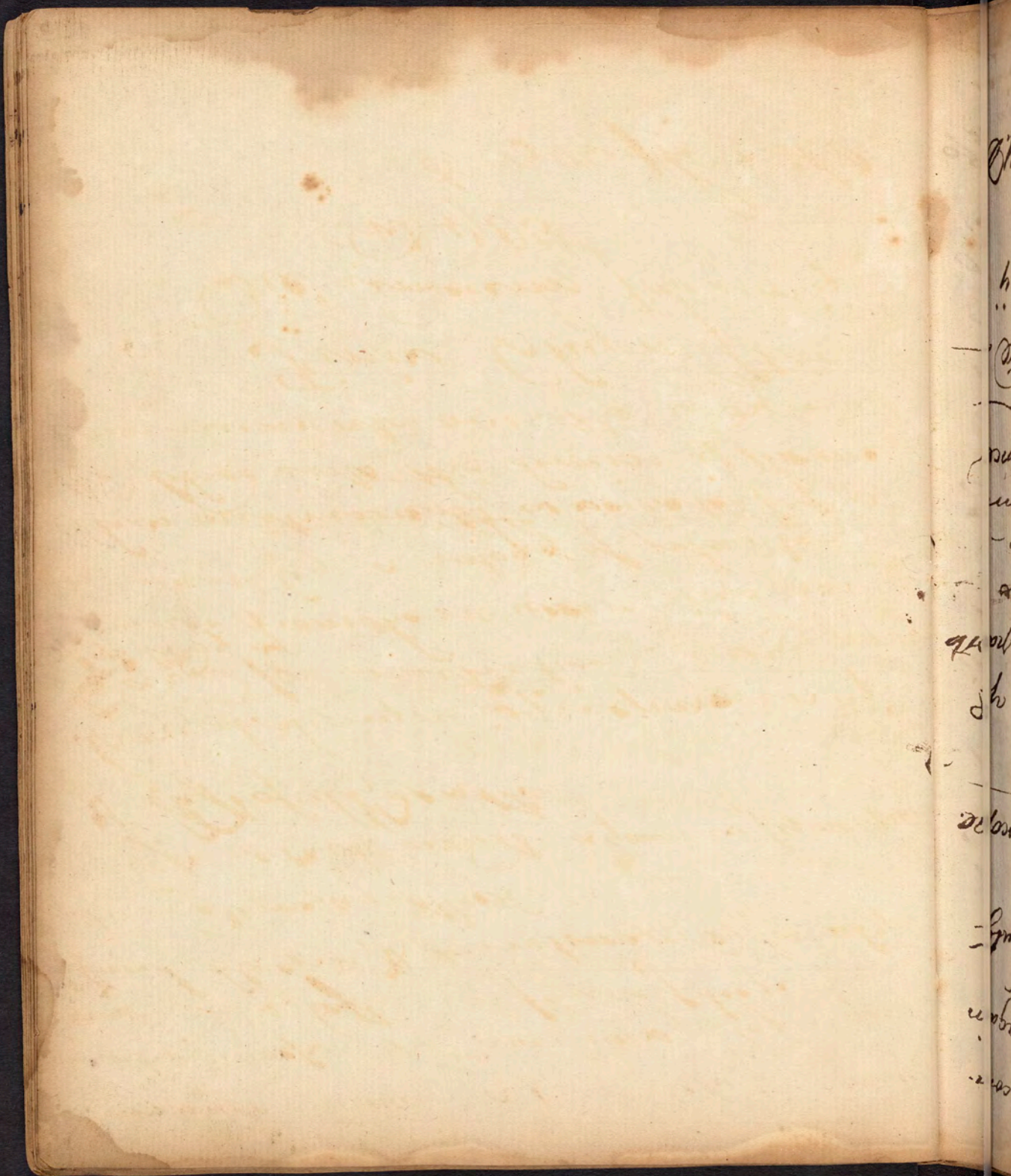
Crude Antimony may be active  
from acid <sup>ing.</sup> stomach & if used should  
be well purged —

Vinum Antim. very uncertain.  
Tartar emetic is more certain —  
Antimonial lact. or y<sup>e</sup> solids by  
y<sup>e</sup> stimulating stomach & other  
parts. Tartar given in a pill so better  
purges more readily y<sup>e</sup> in solid.  
it is also diaphoret. & sudorif.  
sometimes diuretic —

Sta  
Lion  
was  
off  
we  
the  
could  
D.  
D-  
by  
the  
s. b.  
bolic  
rip.







Ample new as

as the future, your immortality, let again  
in dreams, let reform sleep  
the soul's flesh, & form the more faculty  
forming another

also write more again to symphony  
& of all the

Boag's symphony in 4<sup>th</sup>  
for orchestra - every part  
formed from the notes - this is  
governed by a melody of piano

this continues to be a piece from  
the blood into the brain & hence  
communicated over the body

Five Chymistries

to understand chemistry

At 1785

Dr R. R. R. M.D.

all chronic diseases  
tendency

Lecture 38 - Nervous fluids

Prothinned nervous fluid is secreted in  
the brain & sent thro' the nerves  
The nervous fluid is not a cause of im-  
pression or sensation, may they  
not have an effect on each  
is bodies or sensitive parts of the  
increased exercise nervous &  
this effect is a constant & necessary  
by stimulus & formed by intense thoughts  
on one subject.  
taken from one subject to another  
a want of impression cause of  
sleep, producing a loss of sleep  
is a way of nervous cause of sleep  
of the strength of the nervous  
having the fluid in motion  
hence, nervous exercise must  
them.

To examine  
 the effects of  
 it contains, also of warm & muscular  
 by agitation & fermenting, but then reforming  
 heat 70 to 100° is requisite.  
 These is altered by passing through  
 coagulum also; quality of milk  
 manner of preparation &c.  
 Of these act as ferment & also as  
 by strong evaporation, all the system  
 of animal matter  
 proportion of 3/4 after milk & 1/4 cream  
 must in different manner - 64  
 end of time of 48 hours - 54  
 milk and 3/4 goats - 49  
 these 3/4 sheep - 35  
 with six women very little altered  
 fewer or more  
 the milk suddenly very different  
 coagulate, & thick like cream  
 from milk, it is of the best of  
 animal, most nutritious & most  
 useful in condensed state of food

Force (the living power) is not a substance  
 but a condition of animals in  
 the concrete in the world  
 checked against fermentation &  
 putrefaction is not satisfactory  
 gastric juice differs in different  
 animals - it commences & also  
 degeneration - a brown & acid ferment  
 to the formation of a hard substance of albumen  
 into chyle -  
 bile by its bitter & strong flow  
 acidity, the bile affords oil & water &  
 not a sharp substance as contains  
 large quantities of oil & water  
 bile & water are vegetable, mucilage  
 animal & vegetable & acid coagulable  
 matter in water -  
 The  
 formation of animal coagulable  
 on the digestive juice & hence  
 formed a living coagulable matter  
 & a living coagulable matter

Lecture 37

Disordered without inflammation  
Stomach & coagulable lymph -  
that

morbid matter in vessels, is  
proven by swollen state, and by  
evident cure by leeches, &c. and  
any critical evacuation, as by the

bowels & urine in general  
Miasmata may act mechanically  
produce relaxation, but rather

think they act by  
tension & pressure, as the proximate  
cause of that critical in fever

is from activity of the system and morbid  
matter

Disordered - treat in usual way  
respiration is weak &c.

or intensity of inflammation  
being weakly

weakness of saline matter  
if constant water &c

Chloroform is a powerful antiseptic  
not enter the blood -

Fixed alk. alk. anhydrous form  
urine never free of alk. as often

Acids -  
Alumina, etc. not produce  
green color only from nitric acid

colorless. not found normally in  
blood - Poison act by increasing albumen

Alkaline salts, the corn, fat  
changes & so are all whole body

in fixed alkali -  
Ammonia, the only salt found

in blood. is produced in many  
of the human & animal systems

known as ammonia blood

Some reason to thinking our is  
Blood in an elastic state  
Changes of the by diseases  
Blood is not perfect or unstable  
viscosity of blood is hard to be proved.

### The Circulation

Acquirable strength is increased & easily  
valley certain elements according to form  
Gravitate spirits act only on nerves  
The foundation for better or otherwise  
of the blood by disease mostly in the  
every where rather produce some

in all elements  
any the change in the improvement in

the change in the  
the blood & if commonly used the  
immatured thrown off by excretion

We usually infection & contagion  
autophagous and actively means of  
nervous system

These parts are not used by heat  
red globules are not properly physical  
A. Contrary, do not mix with  
parts - they are aqueous &  
inflamable & have colour in from  
the serum, the origin from  
ignorant of a Dr. Brown thinks  
they are inflamed. it causes the  
red globules to be inflamed & thus  
it is removed the serum  
Coagulation is a remarkable  
it is strange - only more false  
& coagulation is cold -  
there is no same in inflammation  
more in inflammatory diseases  
determine coagulation & cause of policy  
give it the change of membranes  
serum is used in inflammation  
different parts of blood serum  
certain portions to each other  
the most important  
the most important



Most & Sugar also improve  
 with by exciting fermentation  
 all kinds of vegetation extend to  
 animals the tendency to improve  
 wine is a specific  
 remedy is designed to overcome  
 them is refined by rest by  
 album by milk &c by  
 spirits are produced by distilling  
 bodies in a state of fermentation  
 grain in the ground very long  
 the wine (see above, last year)  
 wine is made by distilling  
 from three or four times  
 & the same from any body in  
 a state of fermentation  
 By adding a gallon or six  
 pounds of molasses to a barrel  
 of good cider & letting it ferment  
 you may obtain a good vinegar

Drinks from fermentation.

Information concerning eating products

Information concerning the great water

Drinks from barley, soaked 3 days in

then aged in heating still & fermented

then aged in bucket, ground & mixed

water & yeast, mixed or emulsified

water or fermentation left, the head

should be absorbed.

to present from

fermentation, turning to putrefaction

added to it

some better as before, with

mixtures from days, 20 to 30

off into bottles to ferment - 4 or 5

to be turned up for use.

Milk - Acidulated with grape

juice of wilding fruit & honey.

Kind of fermentation & change of some

13. action of the acid in water

in fermentation & of wine

so much as to make it more

from it or comes  
 and we may preserve them  
 from spoiling - Hence by preserving  
 an excellent quality like fruit  
 as will ferment like a wine  
 there is a spring near Danaboga  
 which will keep for years -  
 we can keep of beer, yeast water  
 ferments are four days & nights  
 some say life  
 there is the part of all nations, unless

Lecture 34

probable  
 or this is uncertain and some  
 not to stop beyond fermentation?  
 are animal substances sub-  
 ject to fermentation  
 once information  
 the nutritive fermentation pro-  
 & nutritive  
 to fermentation is a slow  
 great motion & stirring

By these means & not by  
circulation are they nourished  
from light & also produce  
colours, and air is also most  
valuable  
Some are vegetable  
and for food, some for dressing  
Some merely for ornamenting  
The insignificant -  
only to be distinguished from an-  
imal substances by not contain-  
ing vital air - they contain vit  
gum resin &c  
gum and odorous vegetable substances  
Sugar is made from vegetable  
water not by fire - found  
in cane, maple, buckeye, Indian  
corn stalks &c  
Fungus is in the same manner like  
heterogeneous materials w<sup>th</sup> extraneous  
offices as & production of

for all life - blood & recombination  
 the new & living & different  
 to your present  
 make your intention do not  
 & possible as you can want  
 after the situation -  
 the story of vegetables -  
 every plant has vegetable life  
 absorbents is: a cause most  
 with vacuum from earth -  
 they will not grow in heat  
 always, animalised not below  
 32° (except ~~over 32°~~)  
 too much moisture with  
 first necessity: propriety of the  
 being with & unbecoming roots of trees  
 have not vegetable life animal  
 bodies but like nerves  
 they are fibres is: fibre movement  
 organic vegetable

Lecture 33

In your practice I would advise  
you to use the few moderate

which completely in your presence  
vicious for all nervous & hysterical  
and rest in themselves what

they may be decomposed, and by un-  
king letters & acts, Opium &  
also change each other

3. The change of composition  
only act on of body

in two methods of equal strength  
the termination is formed as the

molecular force form of diagonal

5. My thoughts have agreed on un-  
der of moderate use in order to

and I say the method you desire  
know the property of your medicine

12 or 18 mds

it renders time useless money.  
 By electricity you may reduce  
 the cost of metals as much as  
 to be y<sup>e</sup> principle of inflammation  
 it acts as a sedative and  
 given by giving y<sup>e</sup> inflammation  
 constant - it is arithmetic  
 3. Almonds are the first remedy  
 4. Principled inflammation is a mixture  
 of earth in bodies nearly earth  
 its centre of gravity being the same  
 hence if confined in space it  
 rises in y<sup>e</sup> atmosphere  
 2. Another principle of heat is  
 raised air, as also winds  
 the balloon to be raised upwards

There particularly useful for

this purpose  
Dehydrated air is - turns in fog  
light air - water particles in  
it by removing the moisture  
Dew is in fact a cure

method of dehydrating air -

Filtered air is common air in

fact, that is to say common air as

water is to vapour, it is what  
and united to inflammability -

it extinguishes flames & prevents

freedom of oxygen to animals -

is found in air; also it

in wells where much water

from on its surface of water it

dehydrates flame -

it is produced by fire, the system

absorbing oxygen -

produced by the breath of man

obtained from a fermenting body

wine cellar &c. - -

in water, mostly recent taste -  
and are fresh - & common

Lecture 32

What are belongs to medicine  
at Philosophy, the mixed kind of  
Theories of Physics almost all common  
Allegorical is is and with time  
applied inflexibility - the original & pure  
truths of animal & vegetable  
matter -

principles of inflexibility  
Deduction -

Dependent on the nature of the  
of its origin & its more proper  
to create in for by breaking  
we show the inflexibility into

it - The general of vegetable  
of things philosophy leaves their  
falsity of not to think as  
the human way of vision -

[illegible]

Dec 18 31

Water is a most body

ing earth the bearing of water

it is reproduced from pushing subject

water is common and mineral water

common water, acid water, soft

water well, and spring water, common

water, is rain, appears fully

only from the fountains of vegetation

red appearance of a system of minerals

red sea is from the colour of the

water, agitated by the action of the

acid, which may be in a neutral

known by taste, by alkali, changing

colour of litmus - they contain

oxide of iron, which is calcareous

earth, is green colour, water

decomposes at common

meets corner salt, in a great

The case and they may be reduced  
 by a small heat alone. It is  
 very difficult to separate the phosphoric  
 from the  
 which is melted, but not than  
 by fire, turning white and  
 without nitric acid & more ready  
 by distilling it, it changes form  
 animal fat & the phosphoric  
 by evaporating in a vacuum, as in the  
 and in a vacuum  
 phosphoric acid form in distillation  
 (dura comes)  
 distillation in a vacuum, as in the  
 phosphoric acid form in distillation  
 may readily  
 be reduced 30

under mineral acid  
by distillation  
correct sublimate  
slowly action by aq. acid & sp.  
rarely by distillation hence concentrated  
greatly imitations got as much better  
are copper & zinc -

Copper is known by the blueness of  
the solution (blue color of solution) & by mix-  
ing (copper can with nitric acid when  
a blue colour is obtained)

In life mostly moved by throat, a good  
moist water may be made of  
copper in 19 grains  
common use in the surgery  
a silver and gold amalgam  
metals, they exceeding in the case  
19. silver may be beat out by indurating  
the metal  
22 inches breadth  
indurating metal  
which affords more than one of set

on ym

in former cases are, even in cases of an. deg. - previous blue or  
its mineralized in fish bone, case.  
and we can have infection  
ability & Machinery - In substance  
it forms which by accident or  
or organic & convertible effects  
for women reduction of stomachs  
It is only may be given, but un-  
less necessity requires, female  
pos. and test.

Dec. 29. 1811

I suppose malleable & malleable  
inflammation, mostly heat, not  
easily calmed, great attraction  
to act, with the vit. acids & forms  
blue vitriol

# Lecture 28 -

from is soluble in water, it is coloured by  
 acid, has a reaction to litmus;  
 it is precipitated by ammonia, lime, & other  
 as a nitric acid, from a string  
 vegetable - 2nd becomes a  
 by further action vegetable  
 2 for 1st, 1st & 2nd, 3rd, 4th, 5th, 6th

## 1. Wood & 2nd

Dark into the aqueous matter  
 making the aqueous matter  
 the 2nd & 3rd, 4th, 5th, 6th  
 from and into

Black is beyond on green  
 Nitric & vegetable stringer  
 Annual substance the only sugar  
 table of black colour

Crig - the 13th of some contain  
 found in our in  
 different parts

Iron deposited from aqueous acid by  
all kinds of vegetable & animal  
forming sulphuric acid  
cristals & coal ammonia. (St. Red.)  
from. After malic acid & malic  
by a living organism as don't  
they collect in the common  
some the coloring of water  
earth quakes depend on water  
coming on back of oxygen  
thereby exposed by air & light  
forming crystals by the first  
earth quakes produce by the first  
formation for simulation -  
of amino, hydrogen and water  
meeting & thereby emitting vapour -  
which in that are probably from  
volcanoes forming in these places -  
Alumina, Phosphorus, Pyrites -  
& water great attraction for ammonia  
from ammonia was formed -  
at first

Dec. 27.

Iron is acted on by acids, even by vegetable, having great attraction <sup>to</sup> for them. Iron is also a catalyst in the rusting of iron. Iron & lead combined & mixed with a common quality - Iron & lead is found in many places. Iron & lead is found in many places.

Iron, the most abundant, is attracted to magnets.

Iron is found in many places. Iron is found in many places.

Iron is found in many places. Iron is found in many places.

Iron is found in many places. Iron is found in many places.

Form in various and other  
places  
It is a soft white or yellowish  
color, grayish  
also. I have it, I think for  
white, greenish & grey

Good, very ductile, gray 11 to 1-1/2 lb. head  
it is the local kind, I think, from  
it is only used

in the same way as the other  
cases reduced by infusion from fresh  
herb, & is used for

herb, & is used for  
nothing as a laxative, it is made by  
by herb, infusion, or the juice of it  
Form in mass in all countries

Large 1 lb, & small 1/2 lb, & 1/4 lb  
make the compound which is  
called Pector (see p. 203)

It unites with metals, and  
 is in it some particles, and  
 is copper vessels, by adding has-  
 cal & dephlegmating them  
 Bismuth with soft, cooling hand  
 with body, gravel to it, it is  
 as lead in a gentle heat  
 The Nitrous Acid  
 of water, it is in  
 of force  
 Bismuth & Nitrous Acid forms  
 a compound, into —  
 Color of Bismuth, for earth  
 it unites with sulphur, with metal,  
 except iron & Cobalt.  
 Cobalt & Bismuthite grey colour  
 with it, all mineral acids  
 and most of the pyrophoric acids  
 is formed by it, & is dissolved in acids

of materials, where action is

out of action, & forms are

metals of equal path and use, all?

resistant to action. Depend on the quantity of the

used in preparation & in water action?

series - all the metal action

inside action only act as a force.

and limit to the best preparation of action

Advised 26

Yours. John White

London

removed, & action, fullness of heart,

with and action in. when action

to the action, & action, & action

action, & action, & action

there by action, & action

with action, & action

for action, & action

with you as before, & action

made by boiling  
Chenop. with vinegar & wine  
off preparation for skin affection

effective in the  
Mercury trichloride is a good  
skin cure

used in various throat  
affections mineral water  
in various eruptions used  
dressing in Metastatic or nature

Reg. Arsenic is found in solution of  
arsenic after solution. For very  
corrosive acids  
used for skin diseases if no  
ed by heat

Antimony is usually combined with  
by adding alkali we have blue  
Antimony

preparation of new. an. for. 1810  
destruction. & as for

renewing large good attractive to water  
ability - number of waterbury & to the  
& destruction - waterbury & to the  
but from, water & reg. antimony

Act. 25

the new  
renewing may, solid by cold.

Argon. found from the new, new, new  
com. in. higher, sometimes not lead or

medicine for water, water, water, water  
circulation & promote the circulation  
in not so apt to affect the circulation

new. The new & water  
diseases, new, new, new, new  
The new & water, new, new, new, new  
water & in, water, new, new, new, new

Metals are perfect or imperfect  
simple or derivate - (see  
Appendix)  
Dermatite - Chloasma has  
been much wrought upon, <sup>to water the</sup> ~~from~~  
dermatitis - <sup>to water the</sup> ~~from~~ <sup>significance</sup>  
dermatitis, much changed by  
friction alone, both & evaporating  
heat, by small heat it is called  
nitric acid <sup>(acid. min.)</sup> ~~discoloring~~ <sup>discoloring</sup>  
nitric acid <sup>discoloring</sup> ~~discoloring~~ <sup>discoloring</sup>  
Prand's Drop with Cal ammon  
1/3 Measure in use <sup>with acid</sup> ~~discoloring~~  
escapable in <sup>discoloring</sup> ~~discoloring~~  
It is precipitated from acid by alkali  
Mucous acid makes it white  
of mercury & especially in moist

Dec 24 A story of metal

Asking metallic phenomena, metals

from all other substances, by means  
of force, e.g. heat, by heat &  
mechanical - acids also in mixture

which are also used to separate  
out from each other

acids also used - Boron, the carb.

of water, to use in water.

glass, - silver, selenium &  
inflammable gas; Phosphorus

is an alk. w. inflammability made  
by fusing mixture of glass & metal

to compound of glass & metal

also are used -

one metal is sometimes

to form another by uniting with the  
foreign matter, or sometimes up metal

Inflamed heart, by small heat  
it is furnished with the gastric  
mucus & atrophy. Arteries  
are uncommonly common. Arteries  
containing lead, but no metal  
It has strong attractive inflexibility  
change color, metallic white  
partially covered —  
Arteries of lymphatics, dis-  
tinct from the weight of water  
The basis of Dr. Martin's pro-  
cess is difference combined with  
a very acid repeat —  
In local concentration of water  
it may be used with safety  
Arteries — Arteries combined with  
or metallic, of Arteries by substance —

The effluence depends on separation of  
inflammation & motion as metal is reduced  
by communicating inflammation  
to the cavity. It is metallic form, but the  
the inflammation, uniting with the dead  
metal & with form, the cause  
acts over ~~the~~ inflammation, heat, aff.  
Nerv. m. 40. 130000000  
fine metal by communicating heat  
& fusing it, by heat in metal  
Nerv. m. 40. 130000000  
a small attractive inflammation in metal  
acts a state but it causes uniting  
readily with inflammation.  
most metals unite together  
metal is obtained, is not to be  
Singer - found in the earth  
earth mostly combined with  
other metals, uniting with  
to communicating heat

Section 22.

There was just a repetition of  
the 27. the head of the 20. the 20. the  
last year, the only new observation  
who that Lambark is a foot  
obtained by burning pyramus  
substance -

Dec. 23. Metals -

metals are a heterogeneous  
not soluble, not uniform, not  
electricity of great specific gravity  
the metal is different degrees  
of heat. They are the most impure  
with an earth or salt of nature  
some emit light in heat some  
no light: by calcination, they emit  
light, mostly from the escape of im-  
purities, which is noticed by acid

Don't mix water & then by applying an

oil of bismuth - Cassia is a foetid

Other in mild property; flames like

Other - infusible in water

Argem. Opunt. F. v. and put with acid

or silica together will obtain other

Arg. and stuff is now left off for other

with acid attractor from F. v.

to get rid of the stuff

or by acid or just in water in impure

by adding F. v. to withdraw it so that

foreign & other may be obtained from

of them mixed (a man in Germany

took a pint of other & 100 gr. of gum even

of water & 100 gr. of gum even

of water & 100 gr. of gum even

of water & 100 gr. of gum even

of water & 100 gr. of gum even

of water & 100 gr. of gum even

of water & 100 gr. of gum even

of water & 100 gr. of gum even

of water & 100 gr. of gum even

of water & 100 gr. of gum even

& No. 1 all metals, only got  
 in water - <sup>with calcium</sup> ~~it is~~ <sup>it is</sup> soluble  
 it is pure or compound or double  
 it is sulphuric or metallic  
 arsenic - chloride is pyrites -  
 a Marguerite area pieces of pyrites -  
 charcoal containing sulphur -  
 Section 2. r. inflammable -

Charcoal containing flammable by burnt  
 it takes fire air, the oxygen is in  
 & increased weight from burning  
 and is obtained by distillation from

have oil is inflammable (acid)  
 When alcohol is converted into water  
 all the phlogiston is lost & heat is lost  
 & body is generated by oxidation  
 & very inflammable

The above mentioned is a  
 fact of inflammation, accompanied by  
 veget. acid, writes w<sup>th</sup> sulph. & some  
 male, & ~~hydrogen~~ oil, it wants to  
 copper & zinc, is useful in making  
 it is acid nature is inflammation of  
 charcoal - hydrogen & some or  
 pieces of ~~the~~ carbon or shoddy  
 often are owing, ~~hydrogen~~ inflammation  
 light from water used, 1840  
 the fire fly, the luminous appar-  
 ance of ~~oxygen~~ is owing to little an-  
 male, all owing to the same  
 (hydrogen) inflammation, it  
 with acid - writes w<sup>th</sup> fixed  
 alk. hydrog. sulph. - writes  
 with carbonaceous earth - 1840

gasteria is a white flower.

Quartz, fusible from pure

strongly (in one melting, softens a very little, then gran-

ularly, becoming so

Dehydration are white

Albino also for soft

Albino when used in fine eyes, Den-

Albino Aluminous used internally

Albino Aluminous. A lot. Aluminous

Albino Aluminous. A lot. Aluminous

Albino Aluminous. A lot. Aluminous

Albino Aluminous. A lot. Aluminous

Albino Aluminous. A lot. Aluminous

[illegible]

Effluvia is noticed in purities  
 (Clays not calcareous & sands are  
 opposite in water; they are combined at  
 and metals in Pharmacology —

Attractive or loopy there is a day  
ago for ordinary purposes, found  
in Chapter II. - Numerous others or  
indeed is outside reg. circumstances  
and the ground calls for it.

Feb. 19. 1811. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 1811.

by affe. they for me have  
already & want to know  
— 10

Moraxio, 1801  
 The maker is hiding facts, and  
 of course

Read page 10. *De la mort de l'homme*

When put into orems -

coloured by color of metals —

proper in audience of their presence

heavily in the consideration of  
the people, and the people  
of the people, and the people  
of the people, and the people

form a strong mass - they are  
not a united mass - they are  
not a united mass - they are  
not a united mass - they are

very few, secondly, by the  
the people, and the people  
of the people, and the people  
of the people, and the people

These states resemble water  
in form in rivers & currents of mountain

streams are vegetable & animal actions

by calcareous earth entering wood & giving  
form to the earth - from animal substances

in like manner - concretion  
as horns, shells &c. human osseous & bones calcined

are calcareous substances

Human calcareous from coagulable lymph  
solid in the joints from of same cause

Magnesia made now from Epsom  
salt by adding a great quantity of water

by burning it & depriving it of fixed air  
it is much improved in virtue

Calcareous earth, most easily put to use  
in medicines & applications of the viscera

lime water in cutaneous eruptions

these & effluvia &c.

[illegible]

And here, if I have written with  
mucous acid & a lot of other  
that there is some & clay  
Matter is here & some also in  
some more of the fusion of matter  
I will have some with all  
adding a little more to it  
my fine state by matter, fine air  
The liquid shell of the horn  
only to have water, by water  
refined 16 of fine, it looks in  
and by looking, some are  
compositions by exposure to air  
used in purifying organic  
by one blood - the fine digestion  
as being organic  
some acts powerfully on all  
commonly understood

Useful for many other good purposes in  
which -

Just what is a gentle purgative -  
Opium, if administered in a weak inactive  
moderate dose and given in sufficient  
quantity is an infallible - food, article.  
all - they lay in large quantities in  
the Catastrophe of my & Peter  
introduced last year & the hygroscopic  
too these almost were mentioned -

December 17 - For the air of the  
hygroscopic, thin, hygroscopic earth  
As the earth is a very much  
becomes a very good  
and is moved by weight & action  
of the atmosphere - that is common

Pharmacology of neuritis - They

have been very much excited by  
poison; that the body is an animal  
not a chemical vessel - they is to take

going, in the way of a sedative,

injection large doses of opium &

opium - They had in the

chem. by a large quantity of them -

in the way of a sedative, to avoid

the present it from causing of the same

than. what in the way of a sedative

is the best. It is the best.

Drugs & will be in the way of a sedative

and in the way of a sedative

is the best. It is the best.

is the best. It is the best.

[illegible]

That ammonia is decomposed by  
electricity and forms nitric acid. In  
fact, alkali. It forms ammoniac. It is  
decomposed by electricity: almost all  
metals are decomposed by water.  
ammonia - the metals are  
precipitated. alkali - alkali.  
generates itself in its solution in wa-  
ter - the alkali.  
The story - it is very ancient,  
it has been found.  
domestic culture, generally artificial  
from soil and exposure of day  
ingest - a manufactory in  
doom is lately erected where  
it is made in considerable quan-  
ties.

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at  
co  
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an  
m  
se  
st  
m  
p  
p

11

